## IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An apparatus for receiving a digital broadcast signal that is available to receive a digital satellite broadcast signal via an antenna comprising:

a detecting circuit <u>configured to orthogonally detect</u> for orthogonally detecting a received signal sent from the antenna to a baseband signal;

a carrier/noise (C/N)-value-calculating circuit configured to measure for measuring an average value of amplitude in <u>a</u> radial direction of signal points of phase mapping of the baseband signal obtained by the detecting circuit to calculate a carrier/noise ratio for the received signal;

a phase-noise-amount-calculating circuit <u>configured to measure</u> for measuring an average value of amplitude in <u>a</u> circumferential direction of signal points of the phase mapping of the baseband signal to calculate an amount of phase noise of the received signal;

a bit-error-rate-measuring circuit <u>configured to measure</u> for measuring a bit-error rate of transport stream that is given by demodulating the baseband signal;

a determining circuit <u>configured to determine</u> for determining a factor in deterioration for receiving characteristics of the antenna based on results of the C/N-value-calculating circuit, the phase-noise-amount-calculating circuit, and the bit-error-rate-measuring circuit; and

a measure-mode-setting circuit <u>configured to set</u> for setting a desired measure mode based on the determination result of the determining circuit.

Claim 2 (Currently Amended): The apparatus for receiving a digital broadcast signal according to claim 1 in which the wherein the measure-mode-setting circuit is configured to set the desired measure mode to one of includes:

a first measure mode responding to a case where carrier/noise ratio is low;

a second measure mode for improving deterioration for receiving characteristics due to phase noise of local oscillator in a frequency converter accompanied with the antenna; and

a third measure mode for improving deterioration for receiving characteristics due to parasitic oscillation of the local oscillator in the frequency converter accompanied with the antenna.

Claim 3 (Currently Amended): A method for receiving a signal in an apparatus for receiving a digital broadcast signal that is available to receive a digital satellite broadcast signal via an antenna, the method comprising:

detection step of orthogonally detecting a received signal sent from the antenna to a baseband signal;

earrier/noise (C/N) value-calculating step of measuring an average value of amplitude in <u>a</u> radial direction of signal points of phase mapping of the baseband signal obtained in the <u>orthogonally detecting detection step</u> to calculate a carrier/noise ratio for the received signal;

phase noise amount calculating step of measuring an average value of amplitude in a circumferential direction of signal points of the phase mapping of the baseband signal to calculate an amount of phase noise of the received signal;

bit error rate measuring step of measuring a bit-error rate of transport stream that is given by demodulating the baseband signal;

determining step of determining a factor in deterioration for receiving characteristics of the antenna based on results of the measuring an average value of amplitude in a radial direction, measuring an average value of amplitude in a circumferential direction, and measuring a bit error rate C/N value calculating step, the phase noise amount calculating step, and the bit-error rate measuring step; and

measure mode setting step of setting a desired measure mode based on the determination result of the determining step.

Claim 4 (New): The apparatus for receiving a digital broadcast signal according to claim 2 wherein the detecting circuit is configured to set a bandwidth of noise in the second measure mode to a value greater than a bandwidth of the noise in the first measure mode.

Claim 5 (New): The apparatus for receiving a digital broadcast signal according to claim 2 wherein the detecting circuit is configured to set a bandwidth of noise in the third measure mode to a value greater than or equal to a bandwidth of the noise in the second measure mode.

Claim 6 (New): The apparatus for receiving a digital broadcast signal according to claim 2 wherein the detecting circuit is configured to set a dumping factor in the second measure mode to a value greater than a dumping factor in the first measure mode.

Claim 7 (New): The apparatus for receiving a digital broadcast signal according to claim 2 wherein the detecting circuit is configured to set a dumping factor in the third measure mode to a value greater than or equal to a dumping factor in the second measure mode.